

Amendments to the Drawings:

The attached drawing sheet includes changes to FIG. 3. This sheet, which includes FIG. 3, replaces the original sheet including FIG. 3. In FIG. 3, typographical errors have been corrected. No new matter has been added.

Attachment: Replacement Sheet

REMARKS

Applicants respectfully traverse and request reconsideration.

Applicants' attorney wishes to thank the Examiner for the courtesies extended during the telephone conference of June 20, 2006. Applicants have amended independent claims 1 and 10 to delete the words "at least" to clarify that the portion is not an entire primitive. The amendment is believed to make the claim language include inherent language and was made solely to set forth inherent language in the claim.

Applicants also wish to thank the Examiner for the notice that claims 18 and 19 are allowed and that claims 4-6 and 13-15 would be allowable if written in independent form. However, as Applicants' attorney discussed during the interview, and as the Examiner has now appreciated, the Watanabe and Chang references do not teach the claimed subject matter of the unallowed claims.

Watanabe fails to teach the subject matter for which it was cited. Watanabe teaches that even if a portion of an object is found to be in a view volume, the entire object is rasterized or rendered. As such, it is known to fill all primitives even for pixels that are outside but lie partially within a screen area. It is also known to, for example, fill in primitives even for pixels that are outside a scissor plane is also noted in Applicants' Background of the Invention Section. Watanabe appears to merely teach a prior art system as known which will render on a per object basis, objects even if only a portion of the object lies in a view volume. Applicants claim a different approach.

In contrast to Watanabe, for example, Applicants instead claim, among other things, finding at least a portion of a primitive that lies inside the screen region and filling only pixels in the portion of the primitive that lie inside the screen region. Pixels of the primitives that lie outside the screen region are not filled in, unlike the technique taught in Watanabe.

Other advantages will be recognized by those of ordinary skill in the art . As such, Applicants respectfully submit that the claims are in condition for allowance.

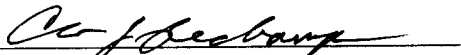
In addition, Watanabe also teaches an “object” based approach and a primitive is not an object. To the contrary, objects are typically comprised of many primitives. Accordingly, the bounding box and operation described in Watanabe is also not properly applied as alleged in the office action.

It will be recognized that other distinguishing features over the cited references will also be recognized by those of ordinary skill in the art.

Applicants respectfully submit that the claims are in condition for allowance and that a timely Notice of Allowance be issued in this case. The Examiner is invited to contact the below-listed attorney if the Examiner believes that a telephone conference will advance the prosecution of this application.

Respectfully submitted,

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